

CLAIMS

Having thus described the invention, what I desire to protect by Letters Patent and hereby claim is:

1. A piping system for conveying fluid from the outlet port of a pump to the inlet port of a fluid dispenser, which comprises:
  - a. a pump coupling removable coupled to the outlet port of the pump, said pump coupling comprising an inner pipe in communication with the outlet port of the pump and an outer piping adapter concentric with the inner pipe;
  - b. a dispenser coupling removable coupled to the inlet port of the fluid dispenser, said dispenser coupling comprising an inner pipe in communication with the inlet port of the fluid dispenser and an outer piping adapter concentric with the inner pipe;
  - c. a primary pipe of flexible material having an inlet end and an outlet end, said inlet end being removable secured to the inner pipe of the pump coupling and said outlet end being removable secured to the inner pipe of the dispenser coupling;
  - d. a secondary pipe of flexible material generally surrounding the primary pipe, said secondary pipe having a pump end and a dispenser end;
  - e. a secondary pump coupling removable securing the pump end of the secondary pipe to the outer piping adapter of the pump, said secondary pump coupling comprising a first end adapted to mate with the outer piping adapter of the pump coupling and a second end adapted to mate with the pump end of the secondary pipe;

f. a secondary dispenser coupling removable securing the dispenser end of the secondary pipe to the outer piping adapter of the dispenser coupling, said secondary dispenser coupling comprising a first end adapted to mate with the outer piping adapter of the dispenser coupling and a second end adapted to mate with the dispenser end of the secondary pipe; and

g. a containment chamber removable fabricated around the pump, said containment chamber housing the primary pipe - secondary pipe mechanical connection to the outlet part of the pump, whereby the annular volume defined by the primary pipe, the secondary pipe, the pump coupling, the secondary pump coupling, the dispenser coupling and the secondary dispenser coupling provides containment for the fluid in the event of leakage from the primary pipe.

2. The continuous flexible piping system of claim 1 wherein leakage of the fluid in the primary pipe, or the coupling at the pump end or the dispenser end, may be drained into a containment chamber connected to the piping run.

3. The continuous flexible piping system of claim 1 wherein a leak from the primary pipe may be detected by the installation of a sensor placed in the annular space defined by the primary pipe and secondary pipe.

4. The continuous flexible piping system of claim 1 wherein a leak from the primary pipe may be removed by suction at the dispenser connection above ground.

5. The continuous flexible piping system of claim 1 wherein a leak of fluid in the primary pipe, or the coupling at the pump end or the dispenser end can be retrofitted through the containment chamber and without excavating or breaking ground at

the installed tank - dispenser site.

6. The continuous flexible piping system of claim 1 wherein the secondary pipe is connected directly to sleeves that protrude from the containment pan at one end and the containment chamber at the other end.